CASIO

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CTK80ES-1

CTK-80

USER'S GUIDE
GUÍA DEL USUARIO

P
CTK80ES-1

CASIO

Welcome...

To the happy family of satisfied CASIO electronic musical instrument owners! To get the most out of the many features and functions of the CTK-80, be sure to carefully read this manual and keep it on hand for future reference.

Important!

Promptly replace the batteries or use the AC adaptor when the following symptoms occur.

- Dim power supply indicator
- Abnormally low speaker volume
- Distortion of sound output
- A totally different tone may sound
- Abnormal rhythm pattern and demo tune play
- Continued sound output even after you release a button
- Occasional interruption of sound when playing at high volumes
- Sudden power failure when playing at high volumes

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A (not applicable to other areas).

NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE

CASIO ELECTRONICS CO., LTD.
Unit 6, 1000
North Circular Road
London NW2 7JD, U.K.

(EMC)

This mark is valid in the EU countries only.
Please keep all information for future reference.

Safety Precautions

Symbols

Various symbols are used in this operating manual and on the product itself to ensure that the product is used safely and correctly, and to prevent injury to the user and other persons as well as damage to property. Those symbols along with their meanings are shown below.

WARNING
This indication stipulates matters that have the risk of causing death or serious injury if the product is operated incorrectly while ignoring this indication.

CAUTION
This indication stipulates matters that have the risk of causing injury as well as matters for which there is the likelihood of occurrence of physical damage only if the product is operated incorrectly while ignoring this indication.

Symbol Examples

This triangle symbol (△) means that the user should be careful. (The example at left indicates electrical shock caution.)

This circle with a line through it (⃠) means that the indicated action must not be performed. Indications within or nearby this symbol are specifically prohibited. (The example at left indicates that disassembly is prohibited.)

The black dot (●) means that the indicated action must be performed. Indications within this symbol are actions that are specifically instructed to be performed. (The example at left indicates that the power plug must be unplugged from the electrical socket.)

⚠ WARNING

Please use caution regarding the handling of the AC adaptor.

- Do not use a voltage other than the indicated power supply voltage. Use of a voltage other than that indicated may cause fire or electrical shock.
- If the power cord should become damaged (exposed wires, disconnection, etc.), purchase a new AC adaptor. Use of a damaged power cord may cause fire or electrical shock.
- Do not cut or damage the power cord. Also do not place heavy objects on top of it or subject it to excessive heat. Damage to the power cord may cause fire or electrical shock.
- Do not attempt to shape the power cord or subject it to excessive bending, twisting or pulling. This may cause fire or electrical shock.
- Please use the adaptor specified for this instrument. Use of another adaptor may cause fire, electrical shock, or malfunction.

Do not place containers containing water or other liquids on the instrument.

- Do not place the following objects on the instrument. Placing such objects on the instrument may cause fire or electrical shock if they spill and get inside the instrument.
  - Containers filled with water or other liquids (including vases, potted plants, cups, cosmetics and medicines)
  - Small metal objects (including hairpins, sewing needles and coins)
  - Flammable objects

  In the event a foreign object should happen to get inside the instrument, please take the following actions:
  1. Turn power off.
  2. Unplug the AC adaptor from the wall outlet.
  3. If there are any batteries loaded in the keyboard, remove them.
     - Do not touch the batteries directly with your hands when removing them. They may be hot or battery fluid may be leaking from them.
  4. Consult with the dealer where you purchased the keyboard or with an authorized CASIO service provider.

Do not disassemble or modify the instrument.

- Never attempt of take apart or modify the instrument, its accessories, or separately sold options. Doing so may cause fire, electrical shock or malfunction. Consult your dealer concerning all inspection, adjustment or repair of internal components.

Do not use if there is an abnormality or malfunction.

- Do not use the instrument if there appear to be abnormalities such as the presence of smoke or abnormal odor. Also do not use the instrument if there appear to be malfunctions such as the power not coming on or sound not being produced. Use under such conditions may cause fire or electrical shock. In such cases, take the following actions immediately. Never attempt to repair the instrument yourself.
  1. Turn power off.
  2. Unplug the AC adaptor from the wall outlet.
  3. If there are any batteries loaded in the keyboard, remove them.
     - Do not touch the batteries directly with your hands when removing them. They may be hot or battery fluid may be leaking from them.
  4. Consult with the dealer where you purchased the keyboard or with an authorized CASIO service provider.

When the instrument has been dropped:

- In the case the instrument has been dropped or damaged, take the following actions. Continued use may cause fire or electrical shock.
  1. Turn power off.
  2. Unplug the AC adaptor from the wall outlet.
  3. If there are any batteries loaded in the keyboard, remove them.
     - Do not touch the batteries directly with your hands when removing them. They may be hot or battery fluid may be leaking from them.
  4. Consult with the dealer where you purchased the keyboard or with an authorized CASIO service provider.

Be careful of the bags around children.

- Never allow anyone to place the plastic bags of the instrument, its accessories, and its separately sold options over their heads. Doing so may cause suffocation. Particular caution is required in homes with small children.

⚠ CAUTION

AC Adaptor

- Do not locate the power cord in close proximity to heaters or other heating appliances. This may cause the cord to melt leading to possible fire or electrical shock.
- When unplugging the AC adaptor from an electrical outlet, always make sure to pull on the adaptor itself and not the cord. Pulling excessively on the cord may cause it to be damaged or break leading to possible fire or electrical shock.
- Do not touch the AC adaptor with wet hands when it is plugged in. This may cause electrical shock.
- When not using the instrument for an extended period such as when traveling, always make sure to unplug the AC adaptor from the electrical outlet for safety reasons.
- After use turn off the power switch of the instrument and unplug the AC adaptor from the electrical outlet.

Batteries

- Improper battery use may cause batteries to rupture and leak. This may cause injury, malfunction of the instrument or discoloration of furniture and other articles that come into contact with battery fluid. Take care to observe the following.
  - Install batteries so their polarity (+/-) matches that indicated on the instrument.
  - For safety and to prevent possible leakage of battery fluid, always make sure to remove batteries from the instrument when you do not plan to use it for a long time.
  - Always make sure that the batteries making up a set are all of the same type.
  - Never combine new batteries with old ones.
  - Never dispose of batteries by incinerating them. Never short or disassemble batteries, and do not expose them to excessive heat.
  - Replace dead batteries as soon as possible.
  - Never attempt to recharge batteries.

Transport

- When transporting the instrument, always make sure to unplug the AC adaptor from the electrical outlet and confirm that all other external connections have been disconnected. Only then should the instrument be transported. If the above is not done, the cord may be damaged leading to possible fire or electrical shock.

Care

- Whenever caring, make sure to first unplug the AC adaptor from the electrical outlet. Also remove the instrument's batteries if battery power is being used.

Location

- Never locate the instrument in areas subject to high humidity or heavy accumulation of dust. Doing so may cause fire or electrical shock.
- Never locate the instrument in areas subject to grease splatters or steam, such as in a kitchen or near a humidifier. Doing so may cause fire or electrical shock.

Do not place keyboard on lacquered furniture.

- The instrument's silicone rubber feet may eventually blacken or scar lacquered surfaces. Use felt cloth pads to insulate the feet or preferably use a CASIO musical instrument stand designed for your keyboard.

Do not get onto the instrument or stand.
- Do not crawl on top of the instrument or its optional stand. Particular caution is required in homes having small children. This may cause the instrument or stand to tip over and break resulting in injury.

Do not place heavy objects on the instrument.
- Do not place heavy objects on the instrument. This may cause the instrument to tip over or break resulting in injury.

Optional Stand (sold separately)
- Carefully assemble the stand following the assembly instructions that come with it. Securely tighten all bolts, nuts, and fasteners, and make sure that you mount the instrument correctly onto the stand. Incorrectly or insufficiently tightening screws, or incorrectly mounting the instrument onto the stand can cause the stand to tip over or the instrument to fall off the stand, possibly leading to injury.

Volume
- Very high volume levels can damage hearing. Avoid using the instrument at very high volume settings for long periods. Consult with a physician immediately if you experience impaired hearing or ringing in the ears.

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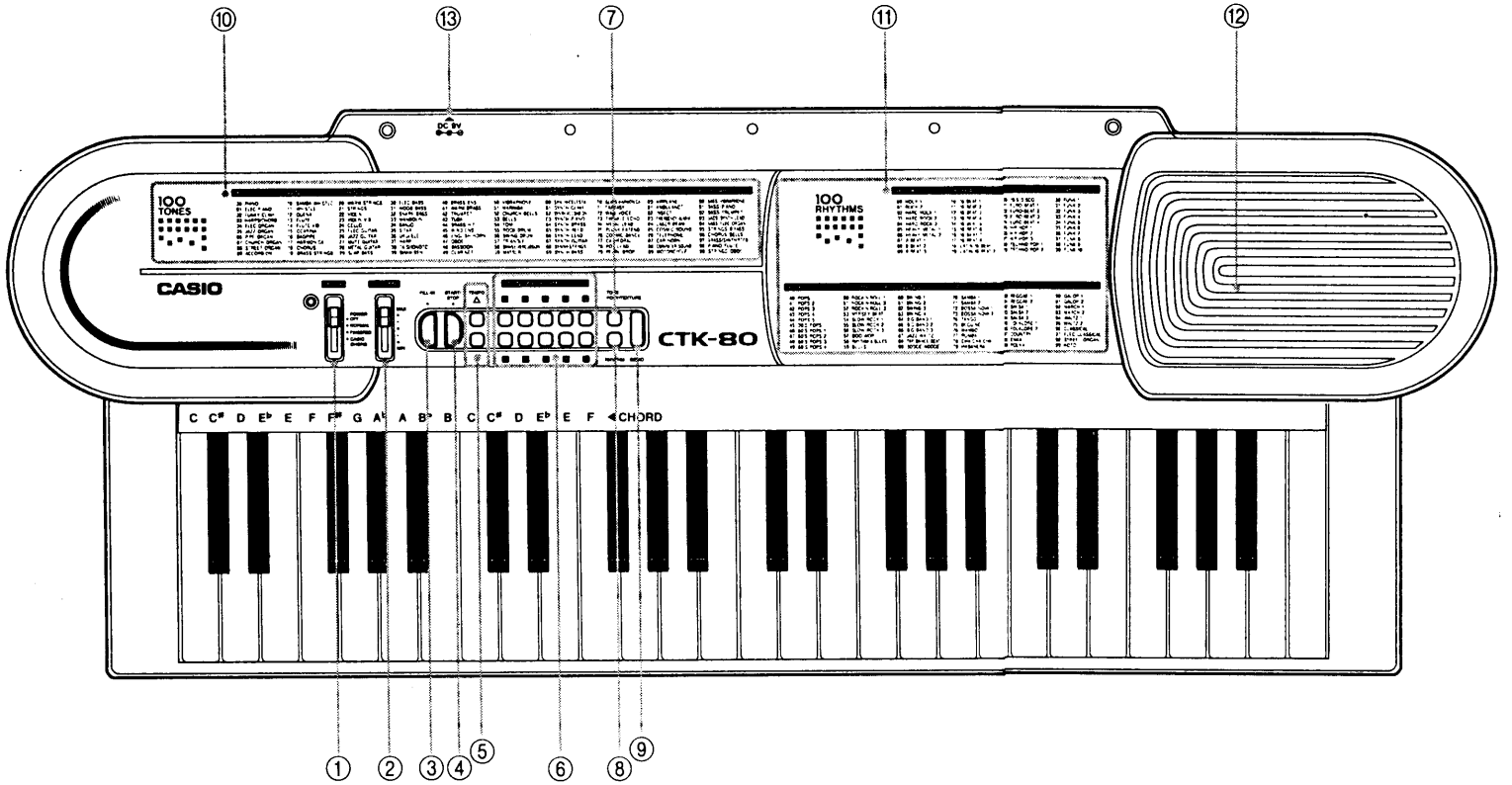
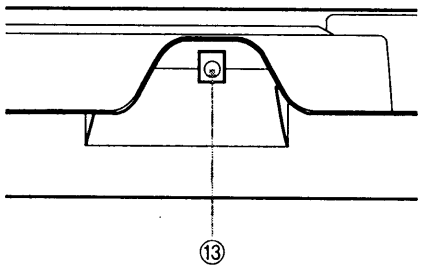
Control Locations

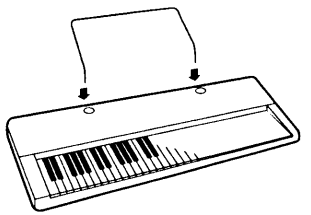


< Rear panel >



①MODE selector
②VOLUME slider
③FILL-IN button
④START/STOP button
⑤TEMPO buttons
⑥TONE/RHYTHM SELECT buttons
⑦TONE POLY/TEXTURE button
⑧RHYTHM button
⑨DEMO button
⑩100 TONES list
⑪100 RHYTHMS list
⑫Speaker
⑬DC 9V jack

Attachment of Score Stand
Insert both ends of the music stand provided with the CTK-80 into the two holes on the top surface.



Note:
You may notice lines in the finish of the case of this keyboard. These lines are a result of the molding process used to shape the plastic of the case. They are not cracks or breaks in the plastic, and are no cause for concern.

Demonstration Tune

This unit features a preset demonstration tune which has been carefully programmed to showcase all the features and benefits of this unit. Simply press the **DEMO button** ⑨, and listen to the CTK-80 plays itself!

- *The demonstration tune is played in an endless loop. Press the **DEMO button** again to stop the tune.*
- *The keyboard is inoperable while playing the demonstration tune.*

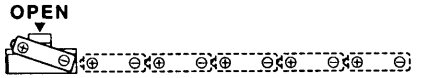
Choosing a Power Supply

You can power your keyboard with 6 AA batteries, standard AC power (with an optional AC adaptor).

Installing the batteries

This keyboard can be powered by 6 AA size (SUM-3/R6P) dry cell batteries. Make sure that the **MODE selector** is set to the POWER OFF position when installing batteries.

1. Open the battery compartment cover on the bottom of the unit.
2. Load new batteries as illustrated, taking care that the plus (+) and minus (–) poles are facing in the correct directions.



3. Replace the battery compartment cover.
   - Standard battery life: Approximately 3 hour (SUM-3/R6P).
     Approximately 6 hours (AM3/LR6).

Important!

Promptly replace the batteries or use the AC adaptor when the following symptoms occur.

- Dim power supply indicator
- Abnormally low speaker volume
- Distortion of sound output
- A totally different tone may sound
- Abnormal rhythm pattern and demo tune play
- Continued sound output even after you release a button
- Occasional interruption of sound when playing at high volume
- Sudden power failure when playing at high volumes

Precautions

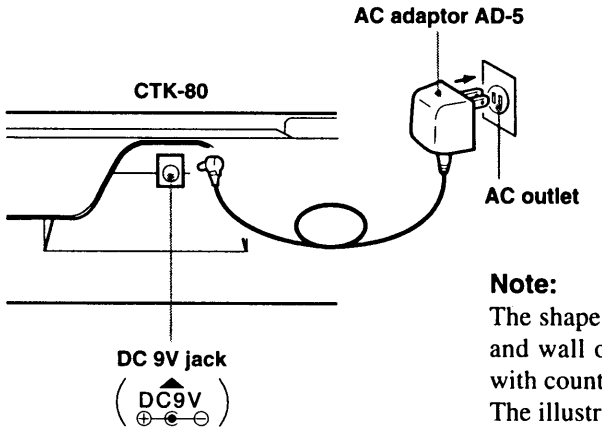
Incorrectly using batteries can cause them to leak or burst, and may damage your unit. Note the following precautions:

- Be sure that the plus (+) and minus (–) poles are facing in the correct directions.
- Do not mix battery types.
- Do not mix new batteries with old ones.
- Never leave dead batteries in the battery compartment.
- Remove batteries when not using the unit for extended periods.
- Never try to recharge the batteries that are specified for the power supply of this unit.

- Do not expose batteries to direct heat, let them become shorted or try to take them apart.
  (If a battery leaks, clean out the battery compartment of the unit immediately, taking care to avoid letting the battery fluid come into direct contact with your skin.)

Using AC power

An AC adaptor (AD-5, optional) is required when using household current. Use only genuine CASIO adaptor with the same voltage rating (100, 117, 220 or 240V) as the power supply in your area to prevent damage to internal components. Be sure to turn the power of the unit off before you connect the adaptor to the unit. Plug the AC adaptor into the AC outlet and the cord into the unit. This will automatically cut off the battery power supply.



Note:

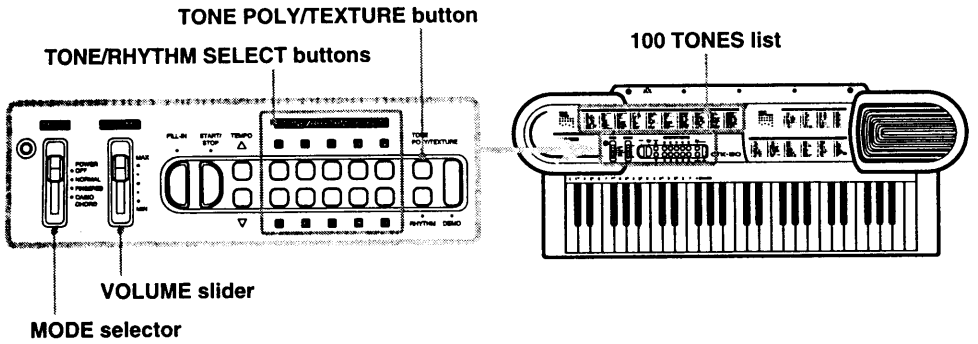
The shapes of the AC adaptor's plug and wall outlet differ in accordance with countries or regions.
The illustration shows an example.

Important!

- The adaptor may become warm when it is being used. This is normal and does not indicate any problem.
- Be sure to unplug the adaptor from the power source when you are not using the unit.
- Whenever connecting or disconnecting the adaptor, be sure that the power of the unit is switched off.
- Never use a power supply that does not match that specified for the unit. Doing so can damage the adaptor or your unit.

Operation

Playing the keyboard



Follow these steps to play the keyboard.

1. Set the **VOLUME slider** to the MIN position.

2. Set the **MODE selector** to NORMAL.

3. Select a tone (see "Selecting a preset tone").

4. Play the keyboard, and adjust the **VOLUME slider** for the desired volume.

Selecting a preset tone

You can choose from 100 preset tones. The name of each tone is labeled with a two-digit number on the keyboard's top panel (**100 TONES list**).

To select a tone, follow the steps below.

1. Press the **TONE POLY/TEXTURE button**. At this time, "PIANO"(No.00) is selected automatically.

2. Enter the two-digit number by pressing the **TONE/RHYTHM SELECT button**. For example, to select OBOE (No.47), press [4] and then [7].

3. To change the tone, repeat step 2 above.

You can also change the selected tone by pressing only one **TONE/RHYTHM SELECT button**. Note the following:

Selected tone	Press	Newly selected tone
No.50	0	No.00
No.00	2	No.02
No.02	5	No.25

Note:
Some of the preset tones split the keyboard and assign two or four sounds to keyboard. Then, the sound produced depends on what position of the keyboard you play. For example, BASS/PIANO (No.91) puts bass on the left and piano on the right of the keyboard.

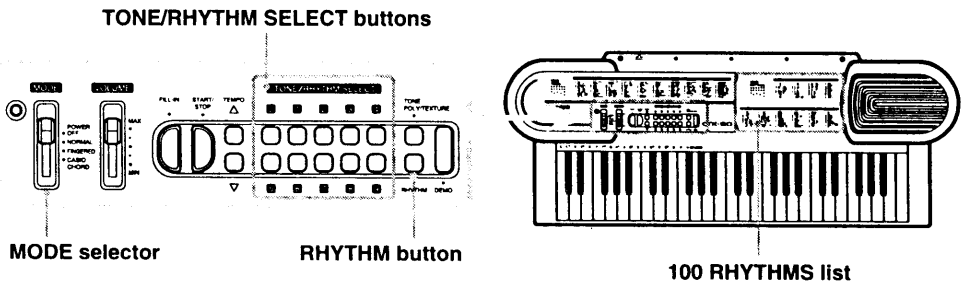
POLY/TEXTURE button

The TONE button also functions as a POLY/TEXTURE button. Once you select a tone, each press of this button switches both the texture of the tone (between thin and thick), and the polyphony of the tone (between 4 and 8).

Important!
Some of the 100 tone available with this keyboard are designed for play at less than maximum volume. This means that a "MAX" volume setting may cause distortion of certain tones. Should this happen, use the **VOLUME slider** to make appropriate adjustment.

Selecting an auto-rhythm

You can choose from 100 auto-rhythms. The name of each rhythm is labeled with a two-digit number on the keyboard's top panel (**100 RHYTHMS list**).



To select an auto-rhythm, follow the steps below.

1. Set the **MODE selector** to NORMAL. At this time "ROCK 1"(No.00) is selected automatically.

2. Press the **RHYTHM button**.

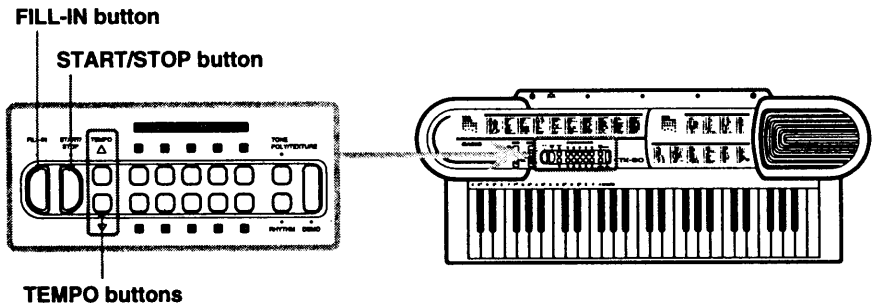
3. Enter the two-digit number by pressing the **TONE/RHYTHM SELECT button**. For example, to select EURO–BEAT 4 (No.24), press [2] and then [4].

4. To change the rhythm, repeat step 3 above.

You can also change the selected rhythm by pressing only one **TONE/RHYTHM SELECT button**. Note the following:

Selected rhythm	Press	Newly selected rhythm
No.50	0	No.00
No.00	2	No.02
No.02	5	No.25

Playing an auto-rhythm



To play an auto-rhythm, follow the steps below.

1. After selecting an auto-rhythm, press **START/STOP button** to start the rhythm.

2. Adjust the tempo using the **TEMPO buttons**. Each press of △ speeds up the tempo, while pressing ▽ slows it down.
   **Tempo of the auto-rhythm can be adjusted between 40 and 256 beats per minute.*

3. Adjust the **MAIN VOLUME slider** for the desired sound balance.

4. Press **START/STOP button** again to stop auto-rhythm play.

Using FILL-IN button

When **FILL-IN button** is pressed during auto-rhythm play, an appropriate fill-in pattern is inserted in the rhythm pattern. If the button is held down, the fill-in pattern is repeated until the end of the measure during which the button is released.

Note:
When playing an auto-rhythm, the polyphony of each preset tone is limited as listed below;

Tone No. 00, 02, 04, 06, 11, 12, 13, 15, 16, 22, 24, 26, 46, 47, 48, 49, 50, 91, 94, 98	6-note polyphonic
Other tones	3-note polyphonic

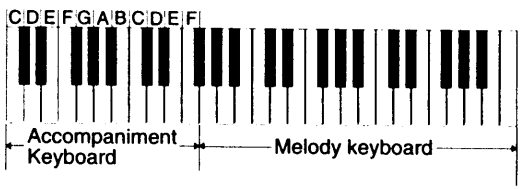
You can switch the polyphony of the tone between 3 and 6 using **TONE POLY/ TEXTURE button when playing an auto-rhythm (see page E-13).*

Auto-accompaniment

This unit features 100 accompaniment patterns that let you add full accompaniments to your performances automatically.
You can select from two types of auto-accompaniment – simplified fingering chord play (CASIO CHORD) or standard fingering (FINGERED).

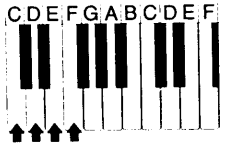
■ Accompaniment keyboard

When you set the **MODE selector** to FINGERED or CASIO CHORD, the keys of the lower 1.5 octave of the keyboard are the accompaniment keys and the rest of the keyboard is the melody section.



■ Playing an accompaniment using CASIO CHORD

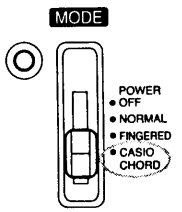
The CASIO CHORD system lets you easily play the four main types of chords. Playing of the chords is simplified as shown in the chart below.

Keys	Chord Type	Example
Pressing **one** accompaniment key	Major chord	C (C Major Chord)
Pressing **two** accompaniment keys	Minor chord	Cm (C Minor Chord)
Pressing **three** accompaniment keys	Seventh chord	C7 (C Seventh Chord)
Pressing **four** accompaniment keys	Minor seventh chord	Cm7 (C Minor Seventh Chord) 

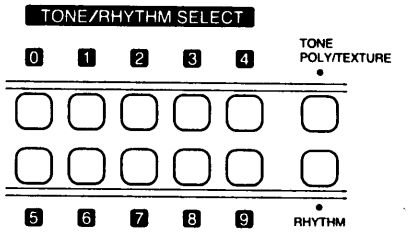
Note:
The bottom note that you play determines the name of the chord. For example, if the bottom note is C, the keyboard plays a C chord.

Follow these steps to play the CASIO CHORD auto-accompaniment.

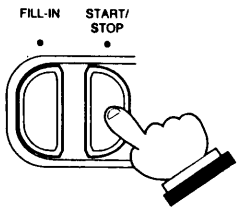
1. Set the **MODE selector** to the CASIO CHORD position.



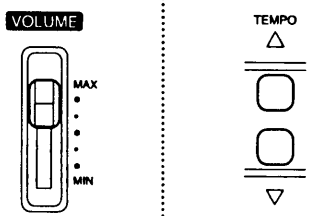
2. Select one of the auto-rhythms. (refer to "Selecting an auto-rhythm" on pages E-13 and E-14.)



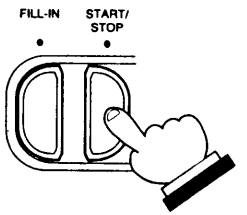
3. Press either one or up to four keys on the accompaniment keyboard, and the corresponding accompaniment starts to play automatically.
   - If you want to start with the rhythm pattern only, press the **START/STOP button** to start, instead of an accompaniment keyboard key. Then when the rhythm pattern reaches the point where you want to start full accompaniment, press an accompaniment keyboard key or keys to start the full accompaniment.



4. Adjust **TEMPO [△/▽], VOLUME slider.**



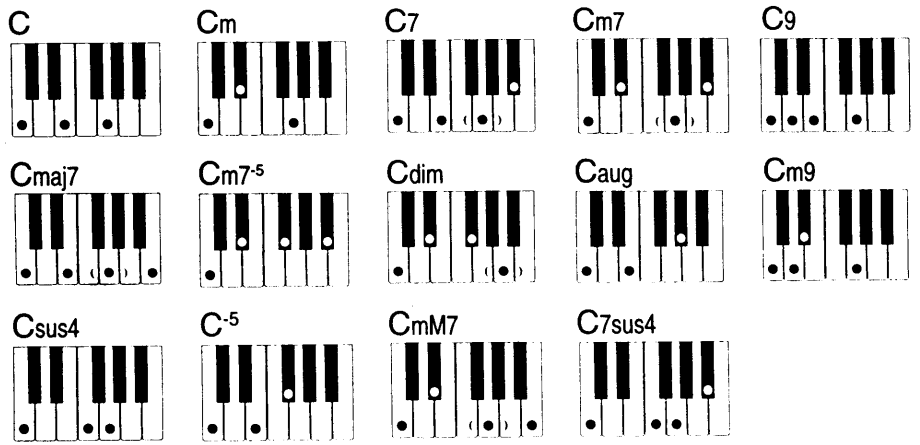
5. Press the **START/STOP button** to stop the auto-accompaniment.



■ Playing an accompaniment using standard fingering

The standard fingering (FINGERED) mode lets you play a wider variety of chords. You can start an accompaniment pattern by pressing down either three or four of the proper accompaniment keys.

This unit is capable of recognizing 14 different chords. The following shows the fingerings of the recognized chords with a root of C. Note that the fingerings within parentheses can be omitted without changing the sound of the chord produced.



Follow the same steps to play the standard fingering auto-accompaniment as is described on the last page.
However, note the following:

- Set the **MODE selector** to FINGERED position.
- Press ***either 3 or 4 proper accompaniment keys*** as shown above to start the accompaniment play. Fingered chord with less than 3 notes produces no response.

Notes:

- Each of the above examples shows only one of the possible fingerings for each chord. Note that you can play a chord by pressing its notes in any combination.
  For example, each of the following fingerings produce the same C chord.

- When playing an auto-accompaniment, the polyphony of each preset tone is limited as listed below;

Tone No. 00, 02, 04, 06, 11, 12, 13, 15, 16, 22, 24, 26, 46, 47, 48, 49, 50, 91, 94, 98	2-note polyphonic
Other tones	Monophonic

You can switch the polyphony of the tone between 1 and 2 using **TONE POLY/ TEXTURE button when playing an auto-accompaniment (see page E-13).*

- See the "List of Fingered Chord" on pages A-1, A-2 for information on the fingering of chords with all roots.

Troubleshooting

Problem	Possible Cause	Remedy
No sound from the keyboard.	Power supply problem.	Check power supply. • Are battery poles (+/–) facing correctly? • Are batteries dead? • Is AC adaptor connected correctly?
No accompaniment even if accompaniment keys are pressed.	**MODE selector** is set to "FINGERED" and accompaniment keys are not pressed correctly (Fingered chord with less than 3 notes produces no response.)	Press either 3 or 4 proper accompaniment keys as shown on page E-18.
Occasional interference.	Refrigerators, washing machines and similar electric appliances.	Use outlet as far away as possible from appliance thought to be the cause.
Following symptoms occur when using batteries. • Dim power supply indicator • Abnormally low speaker volume • Distortion of sound output • A totally different tone may sound • Abnormal rhythm pattern and demo tune play • Continued sound output even after you release a button • Occasional interruption of sound when playing at high volumes • Sudden power failure when playing at high volumes	Low battery power.	Replace the batteries with new ones.

Care of Your Keyboard

Avoid heat, humidity or direct sunlight.
Do not overexpose the unit to direct sunlight, or place near an air conditioner, or in any extremely hot place.

Take care not to drop the unit and avoid strong impact.
Strong impact may cause malfunctions. When carrying or transporting the unit, protect the keyboard and switches with soft cloth or other material.

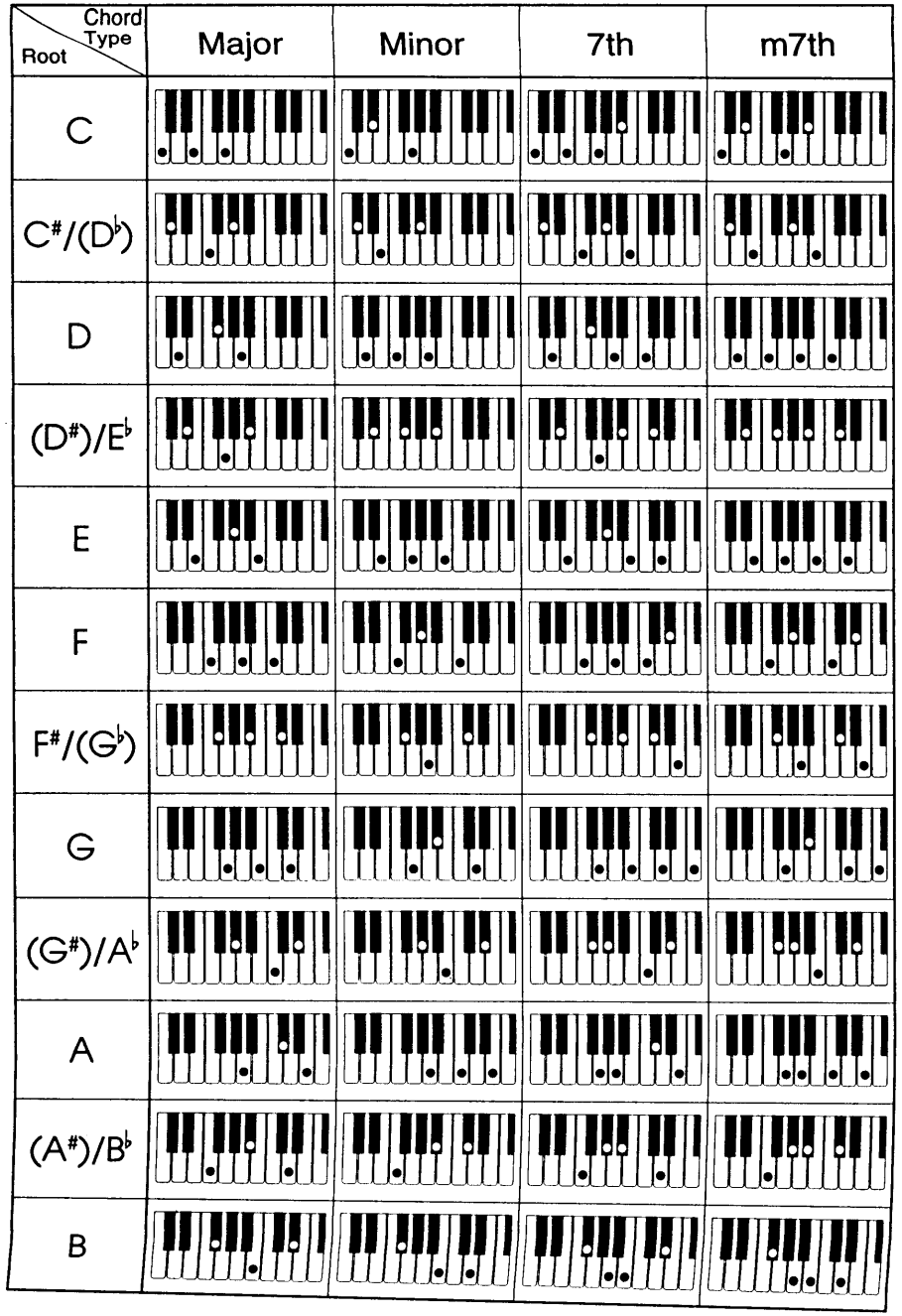
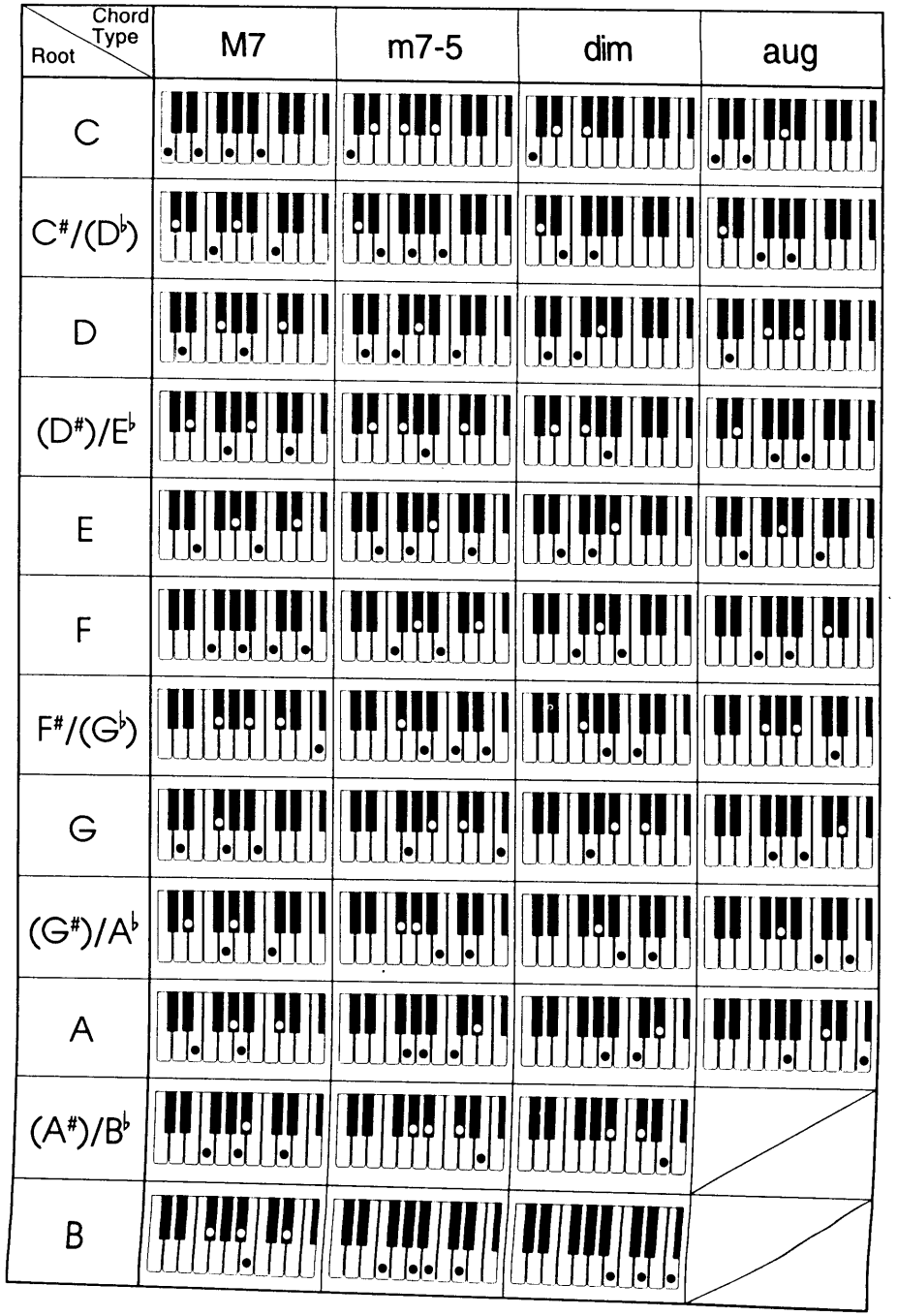
Keep the unit free of liquids, dust, etc.
Do not allow foreign matter to get between the keys, especially metallic objects such as hairpins, sewing needles or coins. Also, do not let the unit get wet.

Never attempt to modify any parts of the unit.
The unit is a precision instrument, made of electronic parts. Any modification of, or tampering with inner parts may cause malfunction.

Do not use lacquer, thinner or similar chemicals for cleaning.
Clean the keyboard with a soft cloth dampened in a weak solution of water and a neutral detergent. (Soak the cloth in the solution and squeeze until it is almost dry.)

Specifications

Model:	CTK–80
Number of keys:	49
Polyphony:	8-note (max)
Preset tones:	100
Auto-rhythms:	100
Built-in speaker:	10cm dia. (output = 2W)
Demonstration tune:	1 (Classical Medley)
Auto-accompaniment:	CASIO CHORD, FINGERED
Terminals:	DC 9V jack
Power source:	2-way AC/DC power sources; AC: 100, 117, 220 or 240 (±10V), 50/60Hz, with optional AC adaptor AD-5. DC: 6 AA size dry batteries Battery life: approx. 3 hours (SUM-3/R6P)/6 hours (AM-3/LR6)
Power consumption:	6.0W
Dimensions(W x D x H):	877 x 327 x 94 mm (34 $^{9}/_{16}$" x 12 $^{7}/_{8}$" x 3 $^{11}/_{16}$")
Weight:	3.05kg (6.7 lbs) excluding batteries

** Design and specifications are subject to change without notice.*

List of Fingered Chord
Lista de acordes digitados